Name: _____ Period: _____

lost: who killed steve!?

project overview: You'll work in groups of 2-4 students to create a compelling closing argument in video form that proves the innocence or guilt of one of your teachers in the (fictional) murder of our beloved principal, Steve Wallis.

driving question: How can our knowledge of exponential and logarithmic functions be used to justify a compelling, real-life argument?

by the end of this project, i will understand how to...

essential #5: Understand the relationship between functions and their inverses

- Understand how to undo functions
- Know how to evaluate a composition of functions
- Express the relationship between a function and its inverse

essential #7: Use logarithms to solve exponential equations

- Be familiar with a logarithm and how to transform its graph
- Apply properties of logarithms to evaluating
- Use logarithms to solve exponential equations

Check ☑	Due Date		Description
	Weds, March 7 Thurs, March 8		**Exhibit A:** -All relevant data collected -Checkpoint #1 mathematics activity complete & written up in report format
	Thurs, March 15 Fri, March 16		**Exhibit B:** -Checkpoint #2 mathematics activity complete & written up in report format
	Weds, Mar 21 Thurs, Mar 22		**Exhibit C:** -Decide which teacher's case you are going to take on, to accuse or acquit of Steve's murder -Outline/storyboard of argument that successfully accuses or acquits your teacher client.
	Filming completed Monday 3/26	**Final draft** Friday 3/30	**Final Deliverable:** 5 minute film that mathematically proves the guilt or innocence of a staff member. **Presentation** will be a day at the movies. The best films will be possibly selected for showing at Community Dialogue.

project calendar

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
PROJECT WEEK ONE				
Feb 27	28	29 Per 1 & 3: Entry Event and Cup of Joe experiment	March 1 Per 4 & 6: Entry Event and Cup of Joe experiment	2
PROJECT WEEK TWO				
5 All Exhibit A questions answered completely	6	7 Per 1 & 3: Exhibit A Report due	8 Per 4 & 6: Exhibit A Report due	9
PROJECT WEEK THREE				
12 All Exhibit B questions answered completely	13	14	15 Per 1 & 3: Exhibit B Report due	16 Per 4 & 6: Exhibit B Report due
PROJECT WEEK FOUR				
1 9	20	21 Per 1 & 3: Exhibit C Outline due	22 Per 4 & 6: Exhibit C Outline due	23
PROJECT WEEK FIVE				
26 All filming completed	26	28	29	30 ***BIG DEADLINE***: Final deliverable (film of closing argument) due!!

group master action plan

I agree to work as a collaborative member of my group, trying hard to the best of my ability. I will not let my group down.

Signed: _____

Exhibit	Description	Leader for this portion of the project (NOTE: This is NOT the only person who should be working on this portion, they are just in charge of making sure it gets done!)			
A	Pre-experiment questions answered in full.				
	Good data is recorded from the experiment & graphs are complete (#2 & 8 in Data Analysis)				
	All questions are completely answered using input from EVERYONE in the group. All group members should have a complete copy of your answers in this packet.				
	Rough draft of Exhibit A is finished by Monday March 5				
	Entire Exhibit A report is typed up and printed				
B	All questions are completely answered using input from EVERYONE in the group. All group members should have a complete copy of your answers in this packet.	***Everyone***			
	Detailed graph of equation modeling Steve's body cooling				
	Solution of equation completely worked out for time of death (using input from EVERYONE in the group) & suspects determined	***Everyone***			
	Rough draft of Exhibit B is finished by Monday March 12				
	Entire Exhibit B report is typed up and printed				
C	Outline & storyboard of closing argument completed in detail				
	Dates, times, & locations set for filming				
Final	Includes development of equation				
	Includes graph of Steve's body cooling				
	Solves exponential function and determines time of death				
	All filming completed by Monday March 26				
	Arranges time and place for everyone to edit video				
	Final video submitted to Ms. Kondo by March 30 in mp4, m4v, or mov format, or posted on a site like YouTube.				